

Project Title	Funding	Strategic Plan Objective	Institution
Vasopressin receptor polymorphism and social cognition	\$373,005	Q2.Other	Agnes Scott College
Dysregulation of mTOR signaling in fragile X syndrome	\$403,767	Q2.S.D	Albert Einstein College of Medicine of Yeshiva University
Genetic rescue of fragile X syndrome in mice by targeted deletion of PIKE	\$60,000	Q2.S.D	Albert Einstein College of Medicine of Yeshiva University
The role of mTOR inhibitors in the treatment of autistic symptoms in symptomatic infantile spasms	\$60,000	Q2.S.E	Albert Einstein College of Medicine of Yeshiva University
Sensory processing and integration in autism	\$550,283	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development	\$0	Q2.S.A	Arkansas Children's Hospital Research Institute
In-vivo imaging of neuronal structure and function in a reversible mouse model for autism.	\$28,000	Q2.S.D	Baylor College of Medicine
Investigating the homeostatic role of MeCP2 in mature brain	\$35,400	Q2.S.D	Baylor College of Medicine
Pathophysiology of MeCP2 spectrum disorders	\$170,383	Q2.S.D	Baylor College of Medicine
Simons Variation in Individuals Project (VIP) Site	\$406,581	Q2.S.G	Baylor College of Medicine
The effects of disturbed sleep on sleep-dependent memory consolidation and daily function in individuals with ASD	\$89,545	Q2.S.E	Beth Israel Deaconess Medical Center
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	\$0	Q2.S.D	Boston Children's Hospital
Understanding the cognitive impact of early life epilepsy	\$836,550	Q2.S.E	Boston Children's Hospital
Simons Variation in Individuals Project (VIP) Site	\$509,875	Q2.S.G	Boston Children's Hospital
Simons Variation in Individual Project (Simons VIP) Core Leader Gift	\$8,244	Q2.S.G	Boston Children's Hospital
Corticothalamic circuit interactions in autism	\$50,000	Q2.Other	Boston Children's Hospital
Neuropeptide regulation of juvenile social behaviors	\$14,755	Q2.Other	Boston College
Architecture of myelinated axons linking frontal cortical areas	\$0	Q2.Other	Boston University
The effects of autism on the sign language development of deaf children	\$47,210	Q2.Other	Boston University
Elucidating the function of class 4 semaphorins in GABAergic synapse formation	\$337,818	Q2.Other	Brandeis University
Presynaptic fragile X proteins	\$90,000	Q2.S.D	Brown University
Attentional distribution and word learning in children with autism	\$0	Q2.Other	Brown University
How does IL-6 mediate the development of autism-related behaviors?	\$0	Q2.S.A	California Institute of Technology
A non-human primate autism model based on maternal infection	\$200,000	Q2.S.A	California Institute of Technology
The mechanism of the maternal infection risk factor for autism	\$0	Q2.S.A	California Institute of Technology
Single-unit recordings from the amygdala in people with autism	\$54,000	Q2.S.E	California Institute of Technology

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CAREER: Dissecting the neural mechanisms for face detection	\$0	Q2.Other	California Institute of Technology
Towards an endophenotype for amygdala dysfunction	\$380,304	Q2.Other	California Institute of Technology
Autism and the insula: Genomic and neural circuits	\$506,341	Q2.Other	California Institute of Technology
Functional role of IL-6 in fetal brain development and abnormal behavior	\$41,800	Q2.Other	California Institute of Technology
Investigating brain connectivity in autism at the whole-brain level	\$90,000	Q2.Other	California Institute of Technology
Exploring the uncanny valley	\$0	Q2.Other	Carnegie Mellon University
Collaborative research: Learning complex auditory categories	\$0	Q2.Other	Carnegie Mellon University
CDI-TYPE II: From language to neural representations of meaning	\$0	Q2.Other	Carnegie Mellon University
Using functional physiology to uncover the fundamental principles of visual cortex	\$307,593	Q2.Other	Carnegie Mellon University
Linguistic perspective-taking in adults with high-functioning autism: Investigation of the mirror neuron system	\$0	Q2.Other	Carnegie Mellon University
Eye movement dynamics in autism spectrum disorders	\$42,350	Q2.Other	Carnegie Mellon University
TrkB agonist therapy for sensorimotor dysfunction in Rett syndrome	\$0	Q2.S.D	Case Western Reserve University
Simons Variation in Individuals Project (VIP) Functional Imaging Site	\$303,305	Q2.S.G	Children's Hospital of Philadelphia
Simons Variation in Individuals Project (VIP) Structural Imaging and Phenotyping Site - SCAP-local	\$0	Q2.S.G	Children's Hospital of Philadelphia
The functional link between DISC1 and neuroligins: Two genetic factors in the etiology of autism	\$0	Q2.S.D	Children's Memorial Hospital, Chicago
Functional imaging of flexibility in autism: Informed by SLC6A4	\$132,748	Q2.S.G	Children's Research Institute
Selective disruption of hippocampal dentate granule cells in autism: Impact of PTEN deletion	\$367,500	Q2.S.E	Cincinnati Children's Hospital Medical Center
High-throughput DNA sequencing method for probing the connectivity of neural circuits at single-neuron resolution	\$430,650	Q2.Other	Cold Spring Harbor Laboratory
Investigation of social brain circuits in mouse models of the 16p11.2 locus	\$87,500	Q2.Other	Cold Spring Harbor Laboratory
Alterations in brain-wide neuroanatomy in autism mouse models	\$0	Q2.Other	Cold Spring Harbor Laboratory
Collaborative research: RUI: Perceptual pick-up processes in interpersonal coordination	\$0	Q2.Other	College of the Holy Cross
Aberrant synaptic form and function due to TSC-mTOR-related mutation in autism spectrum disorders	\$300,000	Q2.S.D	Columbia University

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Aberrant synaptic function caused by TSC mutation in autism	\$0	Q2.S.D	Columbia University
Simons Variation in Individuals Project (VIP) Principal Investigator	\$20,272	Q2.S.G	Columbia University
Simons Variation in Individuals Project (Simons VIP) Principal Investigator Gift	\$48,731	Q2.S.G	Columbia University
Simons Variation in Individuals Project (VIP) Statistical Core Site	\$131,768	Q2.S.G	Columbia University
Cognitive mechanisms of serially organized behavior	\$346,928	Q2.Other	Columbia University
Neuroprotective effects of oxytocin receptor signaling in the enteric nervous system	\$25,000	Q2.Other	Columbia University
Neurexin-neuroligin trans-synaptic interaction in learning and memory	\$200,000	Q2.Other	Columbia University
Role of neurexin in the amygdala and associated fear memory	\$25,000	Q2.Other	Columbia University
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	\$0	Q2.Other	Cornell University
Preference acquisition in children and adolescents with and without autism spectrum disorder	\$28,000	Q2.Other	Dalhousie University
New approaches to local translation: SpaceSTAMP of proteins synthesized in axons	\$246,254	Q2.S.D	Dana-Farber Cancer Institute
Neural systems for the extraction of socially-relevant information from faces	\$51,783	Q2.Other	Dartmouth College
Neural underpinning of emotion perception and its disorders	\$15,000	Q2.Other	Dartmouth College
Imaging signal transduction in single dendritic spines	\$382,200	Q2.Other	Duke University
Neural basis of empathy and its dysfunction in autism spectrum disorders (ASD)	\$0	Q2.Other	Duke University
White matter glial pathology in autism	\$145,689	Q2.Other	East Tennessee State University
Quantitative proteomic approach towards understanding and treating autism	\$112,500	Q2.S.D	Emory University
Simons Variation in Individuals Project (Simons VIP)	\$612,679	Q2.S.G	Emory University
Identifying the gene in 17q12 responsible for neuropsychiatric phenotypes	\$92,640	Q2.S.G	Emory University
Language processing in children with 22q11 deletion syndrome and autism	\$0	Q2.S.G	Emory University
Young development of a novel pet ligand for detecting oxytocin receptors in brain	\$261,360	Q2.Other	Emory University
Cross-modal interactions between vision and touch	\$480,343	Q2.Other	Emory University

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Behavioral and neural processing of faces and expressions in nonhuman primates	\$435,600	Q2.Other	Emory University
PI3K/mTOR signaling as a novel biomarker and therapeutic target in autism	\$100,000	Q2.Other	Emory University
Monolingual and bilingual infants' sensitivity to agreement morphology in Spanish	\$143,650	Q2.Other	Florida International University
CAREER: Model-based fMRI of human object recognition	\$0	Q2.Other	Georgetown University
Neuroimaging of top-down control and bottom-up processes in childhood ASD	\$386,859	Q2.Other	Georgetown University
Exploring metabolic dysfunction in the brains of people with autism	\$59,856	Q2.S.A	George Washington University
Elucidation and rescue of amygdala abnormalities in the Fmr1 mutant mouse model of fragile X syndrome	\$150,000	Q2.S.D	George Washington University
Regulation of 22q11 genes in embryonic and adult forebrain	\$308,631	Q2.S.D	George Washington University
Mechanisms of mitochondrial dysfunction in autism	\$0	Q2.S.A	Georgia State University
RI: Small: Addressing visual analogy problems on the raven's intelligence test	\$165,546	Q2.Other	Georgia Tech Research Corporation
Role of microglial activation in the serotonergic and neuroimmune disturbances underlying autism	\$0	Q2.S.A	Hamamatsu University School of Medicine
Activity-dependent phosphorylation of MeCP2	\$174,748	Q2.S.D	Harvard Medical School
Neuronal activity-dependent regulation of MeCP2	\$426,857	Q2.S.D	Harvard Medical School
The role of UBE3A in autism	\$62,500	Q2.S.D	Harvard Medical School
Underlying mechanisms in a cerebellum-dependent model of autism	\$0	Q2.S.D	Harvard Medical School
Characterizing the genetic systems of autism through multi-disease analysis	\$560,935	Q2.S.G	Harvard Medical School
Perturbed activity-dependent plasticity mechanisms in autism	\$158,034	Q2.Other	Harvard Medical School
Proteome and interaction networks in autism	\$31,250	Q2.Other	Harvard Medical School
Simons Variation in Individuals Project (VIP) Imaging Analysis Site	\$28,560	Q2.S.G	Harvard University
The Brain Genomics Superstruct Project	\$0	Q2.L.B	Harvard University
Dimensions of mind perception	\$0	Q2.Other	Harvard University
Learning and compression in human working memory	\$84,000	Q2.Other	Harvard University
Molecular controls over callosal projection neuron subtype specification and diversity	\$41,800	Q2.Other	Harvard University
Behavioral and neural responses to emotional faces in individuals with ASD	\$14,935	Q2.Other	Harvard University

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Neurobiological signatures of audiovisual speech perception in children in ASD	\$240,420	Q2.Other	Haskins Laboratories, Inc.
To study the relationship between decreased hepatocyte growth factor (HGF) and glutamate excitotoxicity in autistic children	\$7,228	Q2.Other	Health Research Institute/Pfeiffer Treatment Center
Phonological processing in the autism spectrum	\$0	Q2.Other	Heriot-Watt University
Collaborative research: Modeling perception and memory: Studies in priming	\$0	Q2.Other	Indiana University
In vivo targeted gene silencing, a novel method	\$218,472	Q2.Other	Indiana University-Purdue University Indianapolis
Olfactory abnormalities in the modeling of Rett syndrome	\$351,575	Q2.S.D	Johns Hopkins University
High throughput screen for small molecule probes for neural network development	\$405,000	Q2.Other	Johns Hopkins University
The role of CNTNAP2 in embryonic neural stem cell regulation	\$75,000	Q2.Other	Johns Hopkins University School of Medicine
Development of novel diagnostics for fragile X syndrome	\$537,123	Q2.S.D	JS Genetics, Inc.
Vaccination with regression study	\$0	Q2.S.F	Kaiser Permanente Georgia
Motor skill learning in autism	\$412,236	Q2.Other	Kennedy Krieger Institute
Novel approaches for investigating the neurology of autism: Detailed morphometric analysis and correlation with motor impairment	\$0	Q2.Other	Kennedy Krieger Institute
EEG-based assessment of functional connectivity in autism	\$175,176	Q2.Other	Kennedy Krieger Institute
Autism phenotypes in Tuberous Sclerosis: Risk factors, features & architecture	\$0	Q2.S.D	King's College London
Roles of miRNAs in regulation of Foxp2 and in autism	\$0	Q2.Other	Louisiana State University
MicroRNAs in synaptic plasticity and behaviors relevant to autism	\$131,220	Q2.S.D	Massachusetts General Hospital
Identification of targets for the neuronal E3 ubiquitin ligase PAM	\$60,000	Q2.S.D	Massachusetts General Hospital
Neural correlates of restricted, repetitive behaviors in autism spectrum disorders	\$0	Q2.S.G	Massachusetts General Hospital
Neural correlates of restricted, repetitive behaviors in autism spectrum disorders	\$0	Q2.S.G	Massachusetts General Hospital
Retrograde synaptic signaling by Neurexin and Neuroligin in C. elegans	\$250,000	Q2.Other	Massachusetts General Hospital
Multimodal studies of executive function deficits in autism spectrum disorders	\$51,942	Q2.Other	Massachusetts General Hospital
MEG investigation of the neural substrates underlying visual perception in autism	\$128,798	Q2.Other	Massachusetts General Hospital
Neural mechanisms for social cognition in autism spectrum disorders	\$112,523	Q2.Other	Massachusetts Institute of Technology

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CAREER: Typical and atypical development of brain regions for theory of mind	\$27,670	Q2.Other	Massachusetts Institute of Technology
Imaging synaptic neuroligin-neurexin complexes by proximity biotinylation: Applications to the molecular pathogenesis of autism	\$0	Q2.Other	Massachusetts Institute of Technology
Regulation of synaptogenesis by cyclin-dependent kinase 5	\$180,264	Q2.Other	Massachusetts Institute of Technology
Brain bases of language deficits in SLI and ASD	\$651,988	Q2.Other	Massachusetts Institute of Technology
Controlling interareal gamma coherence by optogenetics, pharmacology and behavior	\$83,521	Q2.Other	Massachusetts Institute of Technology
Brain lipid rafts in cholesterol biosynthesis disorders	\$60,480	Q2.Other	Medical College of Wisconsin
A comparative developmental connectivity study of face processing	\$229,574	Q2.Other	Medical University of South Carolina
Functional neuroanatomy of developmental changes in face processing	\$291,933	Q2.Other	Medical University of South Carolina
Are neuronal defects in the cerebral cortex linked to autism?	\$0	Q2.Other	Memorial Sloan-Kettering Cancer Center
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$470,003	Q2.Other	Memorial Sloan-Kettering Cancer Center
CAREER: The role of prosody in word segmentation and lexical access	\$0	Q2.Other	Michigan State University
Enhancing neurobehavioural and clinical definitions in autism spectrum disorders	\$14,000	Q2.Other	Monash University
Hyperthermia and the amelioration of autism symptoms	\$0	Q2.S.A	Montefiore Medical Center
Neural basis of behavioral flexibility	\$360,214	Q2.Other	Mount Sinai School of Medicine
Treatment of medical conditions among individuals with autism spectrum disorders	\$264,726	Q2.S.E	National Institutes of Health
Neuroendocrine regulation of metabolism and neurocognition	\$434,644	Q2.S.E	National Institutes of Health
Neuroimmunologic investigations of autism spectrum disorders (ASD)	\$264,726	Q2.S.F	National Institutes of Health
Functional anatomy of face processing in the primate brain	\$1,720,556	Q2.Other	National Institutes of Health
The cognitive neuroscience of autism spectrum disorders	\$1,102,811	Q2.Other	National Institutes of Health
Learning and plasticity in the human brain	\$286,110	Q2.Other	National Institutes of Health
Diffuse optical brain imaging	\$182,022	Q2.Other	National Institutes of Health
Early expression of autism spectrum disorder in experimental animals	\$54,000	Q2.Other	Neurochlore
Development of brain connectivity in autism	\$0	Q2.Other	New York School of Medicine

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Canonical neural computation in autism spectrum disorders	\$200,717	Q2.Other	New York University
Excessive cap-dependent translation as a molecular mechanism underlying ASD	\$0	Q2.Other	New York University
Molecular components of A-type K <sup>+</sup> channels	\$363,366	Q2.S.E	New York University School of Medicine
The integration of interneurons into cortical microcircuits	\$75,000	Q2.Other	New York University School of Medicine
Enhanced tissue procurement from autistic individuals	\$22,000	Q2.S.C	NICHHD (National Institute of Child Health & Human Development) Brain and Tissue Bank for Developmental Disorders, University of Maryland
A family-genetic study of language in autism	\$389,948	Q2.S.G	Northwestern University
A Multigenerational longitudinal study of language development: Insight from autism	\$0	Q2.S.G	Northwestern University
Cortical microcircuit dysfunction as a result of MET deficiency: A link to autism	\$33,955	Q2.Other	Northwestern University
Neurologin, oxidative stress and autism	\$75,000	Q2.Other	Oklahoma Medical Research Foundation
Computational characterization of language use in autism spectrum disorder	\$759,606	Q2.Other	Oregon Health & Science University
The brain genomics superstruct project	\$75,000	Q2.S.G	President & Fellows of Harvard College
Head-fixed recording of sensory learning in mouse autism models	\$60,000	Q2.Other	Princeton University
MTHFR functional polymorphism C677T and genomic instability in the etiology of idiopathic autism in simplex families	\$114,984	Q2.Other	Queen's University
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Q2.Other	Research Foundation for Mental Hygiene, Inc.
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Q2.Other	Research Foundation for Mental Hygiene, Inc.
Characterization of the pathological and biochemical markers that correlate to the clinical features of autism	\$0	Q2.Other	Research Foundation for Mental Hygiene, Inc.
Glial control of neuronal receptive ending morphology	\$418,275	Q2.Other	Rockefeller University
Autism spectrum disorders and the visual analysis of human motion	\$125,000	Q2.Other	Rutgers, The State University of New Jersey
Multiple systems in theory of mind development	\$0	Q2.Other	Rutgers, The State University of New Jersey - New Brunswick
Social and affective components of communication	\$298,757	Q2.Other	Salk Institute For Biological Studies
Linking local activity and functional connectivity in autism	\$365,655	Q2.Other	San Diego State University
A stem cell based platform for identification of common defects in autism spectrum disorders	\$28,000	Q2.S.D	Scripps Research Institute
Cell adhesion molecules in CNS development	\$535,691	Q2.Other	Scripps Research Institute
The genetic basis of mid-hindbrain malformations	\$805,771	Q2.S.G	Seattle Children's Hospital

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Genetic dissection of restricted repetitive behavior (RRB)	\$180,303	Q2.S.G	Seattle Children's Hospital
Physiology of attention and regulation in children with ASD and LD	\$352,532	Q2.Other	Seattle Children's Hospital
Perturbed cortical patterning in autism	\$0	Q2.Other	Seattle Children's Hospital
Maternal infection and autism: Impact of placental sufficiency and maternal inflammatory responses on fetal brain development	\$108,375	Q2.S.A	Stanford University
GABA(A) and prenatal immune events leading to autism	\$62,500	Q2.S.A	Stanford University
Revealing protein synthesis defects in fragile X syndrome with new chemical tools	\$315,341	Q2.S.D	Stanford University
Modulation of fxr1 splicing as a treatment strategy for autism in fragile X syndrome	\$0	Q2.S.D	Stanford University
L-type calcium channel regulation of neuronal differentiation	\$32,129	Q2.S.D	Stanford University
Probing a monogenic form of autism from molecules to behavior	\$187,500	Q2.S.D	Stanford University
Augmentation of the cholinergic system in fragile X syndrome: a double-blind placebo study	\$237,600	Q2.S.D	Stanford University
Neurobiology of RAI1, the causal gene for Smith-Magenis syndrome	\$31,022	Q2.S.D	Stanford University
Mesocorticolimbic dopamine circuitry in mouse models of autism	\$87,337	Q2.S.D	Stanford University
Characterizing sleep disorders in autism spectrum disorder	\$112,064	Q2.S.E	Stanford University
A neuroimaging study of twin pairs with autism	\$625,808	Q2.S.G	Stanford University
Structural and functional connectivity of large-scale brain networks in autism spectrum disorders	\$168,978	Q2.Other	Stanford University
Regulation of activity-dependent ProSap2 synaptic dynamics	\$33,879	Q2.Other	Stanford University
Function of neuroligins	\$466,651	Q2.Other	Stanford University
Function and dysfunction of neuroligins in synaptic circuits	\$450,000	Q2.Other	Stanford University
Face perception: Mapping psychological spaces to neural responses	\$79,992	Q2.Other	Stanford University
Structural brain differences between autistic and typically-developing siblings	\$13,020	Q2.Other	Stanford University
Mathematical cognition in autism: A cognitive and systems neuroscience approach	\$657,886	Q2.Other	Stanford University
Decoding 'what' and 'who' in the auditory system of children with autism spectrum disorders	\$237,000	Q2.Other	Stanford University
Frontostriatal synaptic dysfunction in a model of autism	\$48,398	Q2.Other	Stanford University



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Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development	\$0	Q2.S.A	State University of New York at Potsdam
Social cognition in 22q11.2 deletion syndrom (DS) adolescents with ASD vs. without ASD: Imaging and genetic correlates	\$28,000	Q2.S.G	State University of New York Upstate Medical Center
Social behavior deficits in autism: Role of amygdala	\$92,074	Q2.Other	State University of New York Upstate Medical Center
The Study of Toddlers with Autism and Regression (STAR) Protocol – Screening for treatable disorders and biomarkers of inflammation and immune activation in the plasma and CNS	\$158,461	Q2.S.A	Surrey Place Centre, Toronto
Collaborative research: The path to verb learning	\$0	Q2.Other	Temple University
A developmental social neuroscience approach to perception-action relations	\$0	Q2.Other	Temple University
The pathogenesis of autism: Maternal antibody exposure in the fetal brain	\$93,500	Q2.S.A	The Feinstein Institute for Medical Research
Neurobiological correlates of language dysfunction in autism spectrum disorders	\$535,464	Q2.Other	The Mind Research Network
Dendritic organization within the cerebral cortex in autism	\$0	Q2.Other	The Open University
Multidimensional impact of pain on individuals and family functioning in ASD	\$13,000	Q2.Other	The Research Foundation of the State University of New York
Defining cells and circuits affected in autism spectrum disorders	\$669,298	Q2.Other	The Rockefeller University
Investigation of IL-9, IL-33 and TSLP in serum of autistic children	\$8,650	Q2.S.A	Tufts University School of Medicine
Behavioral and functional neuroimaging investigations of visual perception and cognition in autistics	\$0	Q2.Other	Université de Montréal
Gastrointestinal functions in autism	\$0	Q2.S.E	University at Buffalo, The State University of New York
Metacognition in comparative perspective	\$210,896	Q2.Other	University at Buffalo, The State University of New York
MeCP2 modulation of bdnf signaling: Shared mechanisms of Rett and autism	\$314,059	Q2.S.D	University of Alabama at Birmingham
Collaborative research: Learning complex auditory categories	\$0	Q2.Other	University of Arizona
Neural mechanisms of tactile sensation in rodent somatosensory cortex	\$256,605	Q2.Other	University of California, Berkeley
Inhibitory mechanisms for sensory map plasticity in cerebral cortex	\$320,399	Q2.Other	University of California, Berkeley
Presynaptic regulation of quantal size by the cation/H <sup>+</sup> exchangers NHE6 & NHE9	\$29,650	Q2.Other	University of California, Berkeley
Primate models of autism	\$75,629	Q2.S.A	University of California, Davis
A role for immune molecules in cortical connectivity: Potential implications for autism	\$0	Q2.S.A	University of California, Davis

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A non-human primate autism model based on maternal immune activation	\$75,629	Q2.S.A	University of California, Davis
Genotype-phenotype relationships in fragile X families	\$530,124	Q2.S.D	University of California, Davis
Limbic system function in carriers of the fragile X premutation (supplement)	\$382,500	Q2.S.D	University of California, Davis
Limbic system function in carriers of the fragile X premutation	\$677,700	Q2.S.D	University of California, Davis
The role of MeCP2 in Rett syndrome	\$329,781	Q2.S.D	University of California, Davis
The role of MeCP2 in Rett syndrome (supplement)	\$38,273	Q2.S.D	University of California, Davis
Mechanism of UBE3A imprint in neurodevelopment	\$33,616	Q2.S.D	University of California, Davis
Self-regulation and sleep in children at risk for autism spectrum disorders	\$90,000	Q2.S.E	University of California, Davis
Glutamate signaling in children with autism spectrum disorder	\$57,840	Q2.Other	University of California, Davis
Synchronous activity in networks of electrically coupled cortical interneurons	\$0	Q2.Other	University of California, Davis
Anatomy of primate amygdaloid complex	\$75,629	Q2.Other	University of California, Davis
Cognitive control in autism	\$152,627	Q2.Other	University of California, Davis
Learning in autism spectrum disorders	\$0	Q2.Other	University of California, Davis
Typical and pathological cellular development of the human amygdala	\$383,750	Q2.Other	University of California, Davis
Experience and cognitive development in infancy	\$100,798	Q2.Other	University of California, Davis
Infants' developing representation of object function	\$0	Q2.Other	University of California, Davis
Cellular density and morphology in the autistic temporal human cerebral cortex	\$345,910	Q2.Other	University of California, Davis
Multisensory integration in children with ASD	\$229,813	Q2.Other	University of California, Davis
BDNF and the restoration of synaptic plasticity in fragile X and autism	\$490,756	Q2.S.D	University of California, Irvine
Integrative functions of the planum temporale	\$479,898	Q2.Other	University of California, Irvine
ACE Center: Genetics of language & social communication: Connecting genes to brain & cognition	\$324,642	Q2.S.G	University of California, Los Angeles
Elucidation of the developmental role of Jakmip1, an autism-susceptibility gene	\$31,042	Q2.Other	University of California, Los Angeles
ACE Center: Mirror neuron and reward circuitry in autism	\$302,654	Q2.Other	University of California, Los Angeles
fMRI study of reward responsiveness of children with autism spectrum disorder	\$53,566	Q2.Other	University of California, Los Angeles
Imaging PTEN-induced changes in adult cortical structure and function in vivo	\$300,339	Q2.Other	University of California, Los Angeles

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Role of autism-susceptibility gene, CNTNAP2, in neural circuitry for vocal communication	\$0	Q2.Other	University of California, Los Angeles
Functional analysis of neuroligin IV in Drosophila	\$68,652	Q2.Other	University of California, Los Angeles
The role of Fox-1 in neurodevelopment and autistic spectrum disorder	\$145,757	Q2.Other	University of California, Los Angeles
A functional genomic analysis of the cerebral cortex	\$85,471	Q2.Other	University of California, Los Angeles
Abnormal connectivity in autism	\$15,000	Q2.Other	University of California, Los Angeles
Neural mechanisms of imitative behavior: Implications for mental health	\$32,696	Q2.Other	University of California, Los Angeles
Relating copy number variants to head and brain size in neuropsychiatric disorders	\$374,659	Q2.S.G	University of California, San Diego
Cellular characterization of Caspr2	\$24,666	Q2.Other	University of California, San Diego
Neuroligins and neuroligins as autism candidate genes: Study of their association in synaptic connectivity	\$0	Q2.Other	University of California, San Diego
Atypical architecture of prefrontal cortex in young children with autism	\$565,183	Q2.Other	University of California, San Diego
fMRI studies of neural dysfunction in autistic toddlers	\$536,393	Q2.Other	University of California, San Diego
Neural basis of cross-modal influences on perception	\$154,104	Q2.Other	University of California, San Diego
Collaborative research: Modeling perception and memory: Studies in priming	\$0	Q2.Other	University of California, San Diego
Neurocognitive mechanisms underlying children's theory of mind development	\$74,160	Q2.Other	University of California, San Diego
Kinetics of drug macromolecule complex formation	\$712,920	Q2.Other	University of California, San Diego
Development of the functional neural systems for face expertise	\$505,729	Q2.Other	University of California, San Diego
ACE Center: Imaging the autistic brain before it knows it has autism	\$197,682	Q2.Other	University of California, San Diego
Using fruit flies to map the network of autism-associated genes	\$31,249	Q2.Other	University of California, San Diego
A sex-specific dissection of autism genetics	\$150,000	Q2.S.B	University of California, San Francisco
Simons Variation in Individuals Project (VIP) Functional Imaging Site	\$320,196	Q2.S.G	University of California, San Francisco
Simons Variation in Individuals Project (VIP) Core Neuroimaging Support Site	\$368,786	Q2.S.G	University of California, San Francisco
Simons Variation in Individuals Project (Simons VIP) Core Leader Gift	\$12,980	Q2.S.G	University of California, San Francisco
Neocortical mechanisms of categorical speech perception	\$240,744	Q2.Other	University of California, San Francisco
Role of micro-RNAs in ASD affected circuit formation and function	\$127,383	Q2.Other	University of California, San Francisco

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Global & targeted profiling of protein, phospho and O-GlcNAc to understand synapses	\$994	Q2.Other	University of California, San Francisco
Role of negative regulators of FGF signaling in frontal cortex development and autism	\$0	Q2.Other	University of California, San Francisco
Deciphering the function and regulation of AUTS2	\$28,000	Q2.Other	University of California, San Francisco
Mechanisms for 5-HTT control of PPI and perseverative behavior using mouse models	\$375,589	Q2.S.G	University of Chicago
Action anticipation in infants	\$98,745	Q2.Other	University of Chicago
Cerebellar plasticity and learning in a mouse model of autism	\$31,250	Q2.Other	University of Chicago
Molecular mechanisms linking early life seizures, autism and intellectual disability	\$332,369	Q2.S.E	University of Colorado Denver
Salivary melatonin as a biomarker for response to sleep interventions in children with autism	\$58,397	Q2.S.E	University of Colorado Denver
Neural synchronydysfunction of gamma oscillations in autism	\$265,073	Q2.Other	University of Colorado Denver
MEG investigation of phonological processing in autism	\$0	Q2.Other	University of Colorado Denver
Collaborative research: The path to verb learning	\$0	Q2.Other	University of Delaware
Genetic dissection of restricted repetitive behavior (RRB)	\$22,813	Q2.S.G	University of Florida
Self-injurious behavior: An animal model of an autism endophenotype	\$0	Q2.Other	University of Florida
ACE Center: Genetics of serotonin in autism: Neurochemical and clinical	\$378,379	Q2.S.G	University of Illinois at Chicago
Autism: Neuropeptide hormones and potential pathway genes	\$185,370	Q2.S.G	University of Illinois at Chicago
Neurobiological mechanisms of insistence on sameness in autism	\$0	Q2.Other	University of Illinois at Chicago
Serotonin signal transduction in two groups of autistic patients	\$0	Q2.Other	University of Illinois at Chicago
ACE Center: Cognitive affective and neurochemical processes underlying is in autism	\$378,379	Q2.Other	University of Illinois at Chicago
fMRI studies of cerebellar functioning in autism	\$0	Q2.Other	University of Illinois at Chicago
Synaptic phenotype, development, and plasticity in the fragile X mouse	\$401,852	Q2.S.D	University of Illinois at Urbana Champaign
Prostaglandins and cerebellum development	\$371,250	Q2.S.A	University of Maryland, Baltimore
Etiology of sleep disorders in ASD: Role of inflammatory cytokines	\$0	Q2.S.E	University of Maryland, Baltimore
A neural model of fronto-parietal mirror neuron system dynamics	\$183,344	Q2.Other	University of Maryland, College Park

Project Title	Funding	Strategic Plan Objective	Institution
How autism affects speech understanding in multitalker environments	\$143,264	Q2.Other	University of Maryland, College Park
The microRNA pathway in translational regulation of neuronal development	\$352,647	Q2.S.D	University of Massachusetts Medical School
Behavioral and sensory evaluation of auditory discrimination in autism	\$178,529	Q2.Other	University of Massachusetts Medical School
Communicative and emotional facial expression production in children with autism	\$171,215	Q2.Other	University of Massachusetts Medical School
Multimodal analyses of face processing in autism & down syndrome	\$182,882	Q2.Other	University of Massachusetts Medical School
Influence of maternal cytokines during pregnancy on effector and regulatory T helper cells as etiological factors in autism	\$93,500	Q2.S.A	University of Medicine & Dentistry of New Jersey
Influence of the maternal immune response on the development of autism	\$0	Q2.S.A	University of Medicine & Dentistry of New Jersey
Caspr2 as an autism candidate gene: A proteomic approach to function & structure	\$312,000	Q2.Other	University of Medicine & Dentistry of New Jersey - Robert Wood Johnson Medical School
Altered gastrointestinal function in the neuroligin-3 mouse model of autism	\$69,813	Q2.S.E	University of Melbourne
Altered gastrointestinal function in the neuroligin-3 mouse model of autism	\$50,434	Q2.S.E	University of Melbourne
Altered gastrointestinal function in the neuroligin-3 mouse model of autism	\$281,742	Q2.S.E	University of Melbourne
Cerebellar modulation of frontal cortical function	\$309,686	Q2.Other	University of Memphis
fMRI evidence of genetic influence on rigidity in ASD	\$0	Q2.S.G	University of Michigan
Neural correlates of serotonin transporter gene polymorphisms and social impairment in ASD	\$127,500	Q2.S.G	University of Michigan
Sensory mechanisms and self-injury	\$392,262	Q2.S.E	University of Minnesota
GABAergic dysfunction in autism	\$278,486	Q2.Other	University of Minnesota
Stimulus-driven attention deficits in autism	\$60,000	Q2.Other	University of Minnesota
The neural correlates of transient and sustained executive control in children with autism spectrum disorder	\$0	Q2.Other	University of Missouri
Diffusion tensor MR spectroscopic imaging in human brain	\$185,213	Q2.Other	University of New Mexico Health Sciences Center
Sex differences in early brain development; Brain development in turner syndrome	\$156,841	Q2.S.D	University of North Carolina at Chapel Hill
An investigation of the overlap of autism and fragile X syndrome	\$71,632	Q2.S.G	University of North Carolina at Chapel Hill
Genome-wide identification of variants affecting early human brain development	\$504,632	Q2.S.G	University of North Carolina at Chapel Hill

Project Title	Funding	Strategic Plan Objective	Institution
A multigenerational longitudinal study of language development: Insight from autism	\$0	Q2.S.G	University of North Carolina at Chapel Hill
Neural circuitry of social cognition in the broad autism phenotype	\$405,855	Q2.S.G	University of North Carolina at Chapel Hill
Pragmatic skills of young males and females with fragile X syndrome	\$396,073	Q2.L.A	University of North Carolina at Chapel Hill
MRI study of brain development in school age children with autism	\$126,978	Q2.L.A	University of North Carolina at Chapel Hill
Functional neuroimaging of psychopharmacologic intervention for autism	\$162,009	Q2.L.B	University of North Carolina at Chapel Hill
Ube3a requirements for structural plasticity of synapses	\$0	Q2.Other	University of North Carolina at Chapel Hill
Statistical analysis of biomedical imaging data in curved space	\$326,619	Q2.Other	University of North Carolina at Chapel Hill
Genetic studies of autism-related Drosophila neurexin and neuroligin	\$550,000	Q2.Other	University of North Carolina at Chapel Hill
Behavioral and neural correlates of reward motivation in children with autism spectrum disorders	\$27,554	Q2.Other	University of North Carolina at Chapel Hill
Neuropathology of the social-cognitive network in Autism: a comparison with other structural theories	\$100,198	Q2.Other	University of Oxford
Autoimmunity against novel antigens in neuropsychiatric dysfunction	\$320,000	Q2.S.A	University of Pennsylvania
Functional circuit disorders of sensory cortex in ASD and RTT	\$254,976	Q2.S.D	University of Pennsylvania
Assessing sleep regulation, sleep-dependent memory consolidation, and sleep-dependent synaptic plasticity in mouse genetic models of schizophrenia and autism spectrum disorders	\$0	Q2.S.E	University of Pennsylvania
A study of autism	\$162,232	Q2.L.B	University of Pennsylvania
Novel computational methods for higher order diffusion MRI in autism	\$665,572	Q2.Other	University of Pennsylvania
Transcriptional responsiveness in lymphoblastoid cell lines	\$52,863	Q2.Other	University of Pennsylvania
Functional neuroimaging of attention in autism	\$234,240	Q2.S.E	University of Pennsylvania/Children's Hospital of Philadelphia
ACE Center: Diffusion tensor MRI + histopathology of brain microstructure + fiber pathways	\$1	Q2.Other	University of Pittsburgh
Cognitive control of emotion in autism	\$103,256	Q2.Other	University of Pittsburgh
ACE Center: Development of categorization, facial knowledge in low & high functioning autism	\$392,439	Q2.Other	University of Pittsburgh
ACE Center: Systems connectivity + brain activation: imaging studies of language + perception	\$426,284	Q2.Other	University of Pittsburgh
Development of ventral stream organization	\$137,338	Q2.Other	University of Pittsburgh

Project Title	Funding	Strategic Plan Objective	Institution
ACE Center: Disturbances of affective contact: Development of brain mechanisms for emotion	\$157,294	Q2.Other	University of Pittsburgh
CNS toxicity of ambient air pollution: Postnatal exposure to ultrafine particles	\$229,433	Q2.S.A	University of Rochester
Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development	\$0	Q2.S.A	University of Rochester
Taste, smell, and feeding behavior in autism: A quantitative traits study	\$570,508	Q2.Other	University of Rochester
Multisensory integration and temporal synchrony in autism	\$35,100	Q2.Other	University of Rochester
Cochlear efferent feedback and hearing-in-noise perception in autism	\$186,794	Q2.Other	University of Rochester
Emergence and stability of autism in fragile X syndrome	\$358,000	Q2.S.D	University of South Carolina
HCC:Small:Computational studies of social nonverbal communication	\$0	Q2.Other	University of Southern California
MET signaling in neural development and circuitry formation	\$83,810	Q2.Other	University of Southern California
Function and structure adaptations in forebrain development	\$541,770	Q2.Other	University of Southern California
Neurodevelopmental mechanisms of social behavior	\$331,208	Q2.Other	University of Southern California
Neurodevelopmental mechanisms of social behavior (supplement)	\$198,063	Q2.Other	University of Southern California
Proteomics in drosophila to identify autism candidate substrates of UBE3A	\$313,159	Q2.S.D	University of Tennessee Health Science Center
Proteomics in drosophila to identify autism candidate substrates of UBE3A (supplement)	\$29,600	Q2.S.D	University of Tennessee Health Science Center
Mouse models of the neuropathology of tuberous sclerosis complex	\$253,177	Q2.S.D	University of Texas Health Science Center at Houston
Regulation of synapse elimination by FMRP	\$54,734	Q2.S.D	University of Texas Southwestern Medical Center
Investigation of protocadherin-10 in MEF2- and FMRP-mediated synapse elimination	\$51,326	Q2.S.D	University of Texas Southwestern Medical Center
Cortical circuit changes and mechanisms in a mouse model of fragile X syndrome	\$278,656	Q2.S.D	University of Texas Southwestern Medical Center
Study of fragile X mental retardation protein in synaptic function and plasticity	\$366,516	Q2.S.D	University of Texas Southwestern Medical Center
Mechanisms of mGluR5 function and dysfunction in mouse autism models	\$419,137	Q2.S.D	University of Texas Southwestern Medical Center
Mechanisms of synapse elimination by autism-linked genes	\$75,000	Q2.S.D	University of Texas Southwestern Medical Center
Coordinated control of synapse development by autism-linked genes	\$75,000	Q2.S.D	University of Texas Southwestern Medical Center

Project Title	Funding	Strategic Plan Objective	Institution
Mouse models of human autism spectrum disorders: Gene targeting in specific brain regions	\$300,000	Q2.S.D	University of Texas Southwestern Medical Center
Motor control and cerebellar maturation in autism	\$157,148	Q2.Other	University of Texas Southwestern Medical Center
Development of face processing expertise	\$350,596	Q2.Other	University of Toronto
20-year outcome of autism	\$150,000	Q2.L.A	University of Utah
Longitudinal characterization of functional connectivity in autism	\$182,352	Q2.L.A	University of Utah
Longitudinal neurodevelopment of auditory and language cortex in autism	\$27,942	Q2.Other	University of Utah
Atypical late neurodevelopment in autism: A longitudinal MRI and DTI study	\$469,620	Q2.Other	University of Utah
The microstructural basis of abnormal connectivity in autism	\$332,991	Q2.Other	University of Utah
Atypical late neurodevelopment in autism: A longitudinal MRI and DTI study (supplement)	\$154,416	Q2.Other	University of Utah
CAREER: Statistical models and classification of time-varying shape	\$404,961	Q2.Other	University of Utah
Neuroimaging of social perception	\$242,812	Q2.Other	University of Virginia
A primate model of gut, immune, and CNS response to childhood vaccines	\$156,634	Q2.S.A	University of Washington
dFMRP and Caprin: Translational regulators of synaptic plasticity	\$12,768	Q2.S.D	University of Washington
ACE Center: Structural and chemical brain imaging of autism	\$509,634	Q2.S.E	University of Washington
Simons Variation in Individuals Project (VIP) Site	\$465,813	Q2.S.G	University of Washington
Social processing, language, and executive functioning in twin pairs: Electrophysiological and behavioral endophenotypes	\$150,000	Q2.S.G	University of Washington
ACE Center: Genetic contributions to endophenotypes of autism	\$563,757	Q2.S.G	University of Washington
Investigation of the link between early brain enlargement and abnormal functional connectivity in autism spectrum disorders	\$117,156	Q2.L.A	University of Washington
Defining the dynamics of the default network with direct brain recordings and functional MRI	\$144,317	Q2.Other	University of Washington
Multimodal brain imaging in autism spectrum disorders	\$167,832	Q2.Other	University of Washington
Synaptic processing in the basal ganglia	\$378,166	Q2.Other	University of Washington
Grammatical development in boys with fragile X syndrome and autism	\$148,500	Q2.S.D	University of Wisconsin - Madison
Macrocephalic autism: Exploring and exploiting the role of PTEN	\$28,000	Q2.Other	University of Wisconsin - Madison



Project Title	Funding	Strategic Plan Objective	Institution
Predicting phenotypic trajectories in Prader-Willi syndrome	\$310,752	Q2.S.D	Vanderbilt University
Epileptiform discharges and its relation to cognition and behavior in children with autism spectrum disorders	\$206,475	Q2.S.E	Vanderbilt University
Characterization of the sleep phenotype in adolescents and adults with autism spectrum disorder	\$0	Q2.S.E	Vanderbilt University
Psychobiological investigation of the socioemotional functioning in autism	\$347,305	Q2.Other	Vanderbilt University
Neural mechanisms underlying an extended multisensory temporal binding window in ASD	\$0	Q2.Other	Vanderbilt University
Neurobehavioral investigation of tactile features in autism spectrum disorders	\$159,480	Q2.Other	Vanderbilt University
The role of intracellular metabotropic glutamate receptor 5 at the synapse	\$26,338	Q2.S.D	Washington University in St. Louis
Role of intracellular mGluR5 in fragile X syndrome and autism	\$150,000	Q2.S.D	Washington University in St. Louis
Autistic traits: Life course & genetic structure	\$548,446	Q2.S.G	Washington University in St. Louis
Molecular mechanisms regulating synaptic strength	\$293,266	Q2.Other	Washington University in St. Louis
Brain circuitry in simplex autism	\$0	Q2.Other	Washington University in St. Louis
Systematic characterization of the immune response to gluten and casein in autism spectrum disorders	\$0	Q2.S.A	Weill Cornell Medical College
Simons Variation in Individuals Project (VIP) Recruitment Coordination Site	\$66,702	Q2.S.G	Weis Center For Research - Geisinger Clinic
Developing novel automated apparatus for studying battery of social behaviors in mutant mouse models for autism	\$0	Q2.Other	Weizmann Institute of Science
Genetically defined stem cell models of Rett and fragile X syndrome	\$175,000	Q2.S.D	Whitehead Institute for Biomedical Research
Allelic choice in Rett syndrome	\$390,481	Q2.S.D	Winifred Masterson Burke Medical Research Institute
Pleiotropic roles of dyslexia genes in neurodevelopmental language impairments	\$41,800	Q2.S.D	Yale University
Investigating the etiology of childhood disintegrative disorder	\$74,983	Q2.S.F	Yale University
Neurogenic growth factors in autism	\$0	Q2.S.G	Yale University
Longitudinal neurogenetics of atypical social brain development in autism	\$876,490	Q2.S.G	Yale University
Near-infrared spectroscopy studies of early neural signatures of autism	\$0	Q2.L.B	Yale University
Role of GluK6 in cerebella circuitry development	\$55,826	Q2.Other	Yale University
ACE Center: Neuroimaging studies of connectivity in ASD	\$324,271	Q2.Other	Yale University

Project Title	Funding	Strategic Plan Objective	Institution
Morphogenesis and function of the cerebral cortex	\$409,613	Q2.Other	Yale University
Identification of candidate genes at the synapse in autism spectrum disorders	\$169,422	Q2.Other	Yale University
Functional analysis of EFR3A mutations associated with autism	\$31,250	Q2.Other	Yale University
Functional properties and directed connectivity in the face-processing network	\$53,042	Q2.Other	Yale University
The neural basis of weak central coherence in autism spectrum disorders	\$13,040	Q2.Other	Yale University
Social brain networks for the detection of agents and intentions	\$413,750	Q2.Other	Yale University

